

HYPERNUMBERS AND OTHER EXOTIC STUFF



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Beyond the Complexes: Toward a lattice based number system - J. Köpflinger, J. A. Shuster
<https://www.cs.du.edu/~petr/milehigh/2013/Koeplinger.pdf>

Linear Numeral System - Ian Mackie - <http://www.ianmackie.com/papers/linns.pdf>

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<https://www.valmet.com/media/articles/up-and-running/reliability/FRFluidDwgs1/>

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Mannone, Matt Rahaim and Florian Thalmann - (see chapter 'Gesture and Vocalization' and 'Elements of a Future Vocal Gesture Theory')

<https://www.amazon.com/Topos-Music-III-Multiverse-Computational/dp/3319644793>

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Kēlen Ceremonial Interlace Alphabet - <https://www.terjemar.net/kelen/lajathin.php>

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Cookbook:Units of measurement - https://en.wikibooks.org/wiki/Cookbook:Units_of_measurement

Mateschef: Un sofrito de números y formas para chefs y gourmets - Claudi Alsina

<https://www.amazon.com/Mateschef-sofrito-n%C3%BAmoros-formas-gourmets/dp/8434422719>

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<https://bernard-gibert.pagesperso-orange.fr/files/Resources/SITP.pdf>
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<https://www.tjoe.org/pub/6kjmqwir/release/2>

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http://www.maths.unsw.edu.au/sites/default/files/3dgeom_zome_tetrahedron_seminar.pdf
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<https://wonderfulengineering.com/pythagoras-theorem-has-been-upgraded-to-3d-and-now-requires-a-120-page-proof/>
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Introduction to the General Trigonometry in Euclidian 2D-space - Claude Ziad Bayeh
<http://www.wseas.us/e-library/transactions/mathematics/2012/53-882.pdf>

Plimpton 322 is Babylonian exact sexagesimal trigonometry - Daniel Francis Mansfield and Norman Wildberger
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 Old Babylonian mathematics and Plimpton 322: A new understanding of the OB tablet Plimpton 322
<https://www.youtube.com/watch?v=L24GzTaOll0>

(6) SOFTWARE ZONE

DATA STRUCTURES*

Treesheet (tree-like spreadsheet) - <http://strlen.com/treesheets/>
 Blockchain (demo) - <https://andersbrownworth.com/blockchain/>
 Heimer (mind map) - <https://github.com/juzzlin/Heimer>
 DAS-UI <https://das-ui.firebaseio.com/> && <https://szymonkaliski.com/writing/2017-09-08-building-das-ui/>
 Enso (diagrammatic coding) - <https://enso.org/language>
 Orca (procedural sequencers) - <https://github.com/Hundredrabbits/Orca>
 Taichi (spatially sparse multi-level data structures) - <https://github.com/taichi-dev/taichi>
 Rasdaman (datacube and arrays) - <http://www.rasdaman.org/wiki>
 Categorical Data (data-related tasks using category theory) - <https://www.categoricaldata.net/>
 Egison (efficient non-linear pattern matching with backtracking for non-free data type) - <https://www.egison.org/>
 Eve (uniform data-processing) - <http://witheve.com/>
 Fluidinfo (columnar shareable data) - <https://github.com/fluidinfo> && <https://en.wikipedia.org/wiki/Fluidinfo>

MentDB (world wide Data) - https://www.mentdb.org/mentdb_weak.html

STRUCTS* WITH META

Bedrock (meta-distro) <https://bedrocklinux.org/>

Funtoo (meta-distro) - <https://www.funtoo.org/Welcome>

T2 System Development Environment (meta-distro) - <https://t2sde.org/index.cgi/>

DL Linux (meta-meta-distro) - <https://web.archive.org/web/20181221164035/https://www.sudosatirical.com/articles/dl-linux-0-0-1-released/>

Black (reflective) - <http://pillab.is.ocha.ac.jp/~asai/Black/>

Terra (meta-programming) - <http://terralang.org/>

MetaL (meta-language) - <https://www.meta-language.net/faq.html#what>

Rinci (metadata specifications) - <https://metacpan.org/pod/Rinci#ABSTRACT>

Circle (meta-programming) - <https://www.circle-lang.org/>

Hackett (meta-programming) - <https://lexi-lambda.github.io/hackett/>

Elena (polymorphic code) - <https://github.com/ELENA-LANG/elena-lang/wiki/ELENA-Programming-Manual#overview>

Beluga (mechanizing meta-theory) - <https://www.cs.mcgill.ca/~complogic/beluga/index.html>

Hazel (incomplete programs) - <https://hazel.org/>

Autohotkey (gui and scripting automation for windows) - <https://www.autohotkey.com/>

Rosie Pattern (beyond regex) - <https://rosie-lang.org/about/>

Antipurity (self-aware interpreter) - <https://github.com/Antipurity/conceptual>

Multicompiler (defensive compiler) - <https://immunant.com/blog/2018/09/multicompiler/>

Avail (articulate programming) - <https://www.availang.org/about-avail/introduction/index.html>

Push (evolutionary computing) - <https://faculty.hampshire.edu/lspector/push.html>

Wyvern (built-in skill for large-scale design) - <https://wyvernlang.github.io/>

Gen (probabilistic) - <https://probcomp.github.io/Gen/>

Pyro (probabilistic) - <https://pyro.ai/>

Rascal (meta-programming) - <https://www.rascal-mpl.org/>

Pharo (software as objects, immersive) - <https://pharo.org/features>

SOUND*

Gwion - <https://gwion.github.io/Gwion/>

Kronos vesaronilo - <http://kronos.vesanorilo.com/>

Supercollider - <https://supercollider.github.io/>

Faust - <https://faust.grame.fr/>

Chuck - <http://chuck.cs.princeton.edu/>

NETWORKING*

Live Raizo (network simulation) - <https://sourceforge.net/projects/live-raizo/>

P4 (implement specific network behaviours) - <https://p4.org/>

Helena (browsing automation) - <https://helena-lang.org/>

Volunia (rpg-like browser) <http://www.volunia.com/>

Gather (rpg-like meetings) - <https://www.gather.town/>

Lynx (textual browser) - [https://en.wikipedia.org/wiki/Lynx_\(web_browser\)](https://en.wikipedia.org/wiki/Lynx_(web_browser))

Beaker Browser (peer-to-peer Web browser) - <https://beakerbrowser.com/>

Nyxt browser (keyboard-driven browser) - <https://github.com/atlas-engineer/next>

Jolie (microservices) - <https://www.jolie-lang.org/>

Daphile (headless music server) - <https://www.daphile.com/>

Skywave linux (software defined radio servers) - <https://skywavelinux.com/>

Gotenna (off-grid mobile mesh) - <https://gotenna.com/>

Manyverse (off-grid social networking) - <https://www.manyver.se/faq/what-is-manyverse>

p2p networking - <https://www.gnunet.org/en/> <https://zeronet.io/> <https://freenetproject.org/>

Eternal-september private news server (usenet) - <http://eternal-september.org/>

Aioe.org public news server (usenet) - <https://news.aioe.org/>

What is the Usenet improvement Project? - <http://twovoyagers.com/improve-usenet.org/>

Fediverse (federated servers for web-publishing) - <https://en.wikipedia.org/wiki/Fediverse>

OPERATING SYSTEM*

XOD.IO (microcontrollers) - <https://xod.io/>

Elemental Processor SIMulator - <https://wepsim.github.io/>

Mikrocodesimulator MikroSim 2010 (microcode) - http://www.mikrocodesimulator.de/index_eng.php

Katai Struct (binary data structures) - <https://kaitai.io/>

Snowdrop OS (16-Bit Operating System) - <http://sebastianmihai.com/snowdrop/>

Turbo Rascal (design of 8-bit/16-bit games)- <https://lemonspawn.com/turbo-rascal-syntax-error-expected-but-begin/>

Tunguska (a ternary computer emulator) - Viktor Lofgren - <http://tunguska.sourceforge.net/>

The Trillium Architecture - Douglas W. Jones - <http://homepage.divms.uiowa.edu/~jones/ternary/trillium.shtml>

Red (full-stack) - <https://www.red-lang.org/p/about.html>

Racket - <https://racket-lang.org/> && Neverlang - <https://cazzola.di.unimi.it/neverlang2.html> (language creation)
Rescatux - <https://www.supergrubdisk.org/rescatux/> && Parted Magic - <https://partedmagic.com/> (OSes for rescue and recovery)
Minix - <https://www.minix3.org/> && 'An Open Letter to Intel' - <https://www.cs.vu.nl/~ast/intel/>
Los Procesadores Intel tienen un Secreto Misterio - <https://www.youtube.com/watch?v=CaLb7waR6eo>
Debian-hurd (debian over Hurd) - <https://www.debian.org/ports/hurd/> https://en.wikipedia.org/wiki/GNU_Hurd
Trisquel (ubuntu over Libre-Linux) - <https://trisquel.info/>
Ratpoison (Window Manager) - <https://www.nongnu.org/ratpoison/>
IceWM (Window Manager) - <https://ice-wm.org/>
RedoxOS - <https://doc.redox-os.org/book/ch01-06-how-redox-compares.html>
Linux From Scratch! - <https://www.linuxfromscratch.org/>

LANGUAGE*

Sono (linguistic study) - <https://github.com/Nallantli/Sono>
Quorum (evidence-oriented) - <https://quorumlanguage.com/reference.html>
Inform7 (interactive narrative, textual adventures) - <http://inform7.com/>
Poliqarp (universal concordancer for large corpora) - <http://poliqarp.sourceforge.net/about.html>
Paper generator - https://en.wikipedia.org/wiki/Paper_generator

GRAPHICS*

Curv (mathematical methods for art design)- <https://github.com/curv3d/curv>
GraRLS (static graphic images) - <http://www.grarls.org/>
KUIML (skin and GUI) - <https://www.bluecataudio.com/Vault/Skins/KUIML/>
Complexities of Color in Computing - Ellen Wondra - <https://www.youtube.com/watch?v=VCvOwoeOgv8>
Dr Huang's Math Handbook Calculator - <http://drhuang.com/> && <http://drhuang.com/science/mathematics/software/>
Draw2D (diagrams) - <http://www.draw2d.org/draw2d/examples.html>
Threejs (creation of 3D content) - <https://threejs.org/manual/#en/fundamentals>
Video (video editing) - <https://lang.video/>

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The Cybernetic Foundation of Mathematics (Semantic graphs and Labeling rules at pages 118 - 121)
https://pat.keldysh.ru/~roman/doc/Turchin/1983_Turchin_The_Cybernetic_Foundation_of_Mathematics.pdf
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Diagnosing the System for Organizations - Stafford Beer
<https://www.amazon.com/Diagnosing-System-Organizations-Stafford-Beer/dp/0471951366>
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<https://www.amazon.com/Beyond-Dispute-Invention-Team-Syntegrity/dp/0471944513>
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How Many Grapes Went Into the Wine - Stafford Beer (see chapter 'The Irrelevance of Automation')
<https://www.amazon.com/Many-Grapes-Went-into-Wine/dp/0471942960>

Cybersyn - <http://www.cybersyn.cl/> && <http://wiki.p2pfoundation.net/Cybersyn>
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Homeostat - <http://pespmc1.vub.ac.be/ASC/HOMEOSTAT.html> && Variety - [https://en.wikipedia.org/wiki/Variety_\(cybernetics\)](https://en.wikipedia.org/wiki/Variety_(cybernetics))

Engineering cybernetics: 60 years in the making - Zhiqiang Gao
https://www.researchgate.net/publication/271917376_Engineering_cybernetics_60_years_in_the_making
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The Fertile Earth - <https://www.amazon.com/Fertile-Earth-Agriculture-Fertilisation-Ecotechnology/dp/B01FGORR8M>

Cypherpunk - <https://en.wikipedia.org/wiki/Cypherpunk>

Plexil (robotics and systems) - <http://plexil.sourceforge.net/wiki/index.php/Overview>
Modelica (language for modeling of cyber-physical systems) - <https://modelica.org/modelicalanguage.html>

Resource Based Economy - https://www.youtube.com/watch?v=_EkMjTnWk14 && <https://www.resourcebasedeconomy.org/>
Center for Resource Management - <https://www.thevenusproject.com/center-for-resource-management/>
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Comparison with current technologies - <https://www.youtube.com/watch?v=T9c821s9mjw>
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<https://www.amazon.co.uk/Destiny-control-human-systems-chronotopology/dp/157898727X>
SUPL (Syntactic Universal Programming Language): a new dimension in software design and artificial intelligence
How to make a stupid machine clever by cybernetically opportunistic programming
Cybernetics today and tomorrow: The place of hypernumbers

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Cognitive-Theoretic Model of the Universe (CTMU) - Christopher Langan - <http://hology.org/>
Chris Langan on IQ, The Singularity, Free Will, Psychedelics, CTMU, and God - <https://www.youtube.com/watch?v=N-bRM1kYuNA>
CTMU Wiki - <https://ctmucommunity.org/wiki/> && CTMU Papers <http://hology.org/ctmu-papers/>
Interview of Langan by Michael Knowles - <https://www.youtube.com/watch?v=11-ckSz6FrQ>
Chris Langan A Kastrup on Consciousness, Metaphysics, Computation, and God - <https://www.youtube.com/watch?v=HsXxgQy4xLQ>

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I Am a Strange Loop - Douglas R. Hofstadter - <https://www.amazon.com/Am-Strange-Loop-Douglas-Hofstadter-ebook/dp/B004PYDBS0>

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<https://www.amazon.com/Psychedelic-Information-Theory-Shamanism-Reason/dp/1453760172>
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Polynomial Root-finding and Polynomiography - Bhaman Kalantari (see section 'Polynomiography based on Voronoi coloring')
<https://www.amazon.com/Polynomial-Root-finding-Polynomiography-Bahman-Kalantari/dp/9812700595>
Pascalejandro – Alejandro Jodorowsky and Pascal Montandon - <http://pascalemontandon.com/albums-work/pascalejandro/>

Schmidt sting pain index - https://en.wikipedia.org/wiki/Schmidt_sting_pain_index

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Dual Quaternion - https://en.wikipedia.org/wiki/Dual_quaternion

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On a novel 3D hypercomplex number system - Shlomo Jacobi - <https://arxiv.org/pdf/1509.01459.pdf>

Generalizaciones de los números: de la aritmética a las variedades diferenciables - Fernando Etayo Gordejuela
<https://repositorio.unican.es/xmlui/bitstream/handle/10902/13817/2016GacRSocMatEspGeneralization.pdf?sequence=1&isAllowed=y>

Ensemble de nombres - Taladris, Silk78, Seirios, Telchar, Tigerfou and Médiat - <https://forums.futura-sciences.com/mathematiques/>

NOMBRES : CURIOSITÉS, THÉORIE, USAGE - Gérard Villemin - <http://villemin.gerard.free.fr/>

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Hoop Algebras - Roger Beresford (orthogonal roots of unity, conjugates and signs distinct of the usual cyclotomic machinery)
Hoop Algebras and Physics - https://library.wolfram.com/infocenter/MathSource/6198/Hoops&Physics.doc?file_id=6093
Hoop Algebra Supplement - https://library.wolfram.com/infocenter/MathSource/6198/HoopAlgebraSupplement.doc?file_id=6092
Wolfram library of Roger - <https://library.wolfram.com/infocenter/MathSource/6198/>
Wolfram demos of Roger - <https://demonstrations.wolfram.com/author.html?author=Roger+Beresford>
https://library.wolfram.com/infocenter/search/?search_results=1&search_person_id=4705
Algebraic loop - <https://mathworld.wolfram.com/AlgebraicLoop.html>
Moufang loop - https://groupprops.subwiki.org/wiki/Moufang_loop

Reinko Venema's blog about 3d numbers and miscellaneous topics - <http://3dcomplexnumbers.net/>

On the Extension of Complex Numbers - Nicholas Gauguin Houghton-Larsen
<https://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.304.5052&rep=rep1&type=pdf>

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<https://pdfs.semanticscholar.org/2a77/5a4f39ba0a0d1ceb34b3e0a1c2223117d680.pdf>

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Paravector - <https://en.wikipedia.org/wiki/Paravector>
Multivector - <https://en.wikipedia.org/wiki/Multivector>
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Complex Numbers The Higher Dimensional Forms 2nd Edition - Dennis Morris
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<https://www.scribd.com/document/35133746/Hyper-Complex-Numbers-in-Geometry-and-Physics>

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